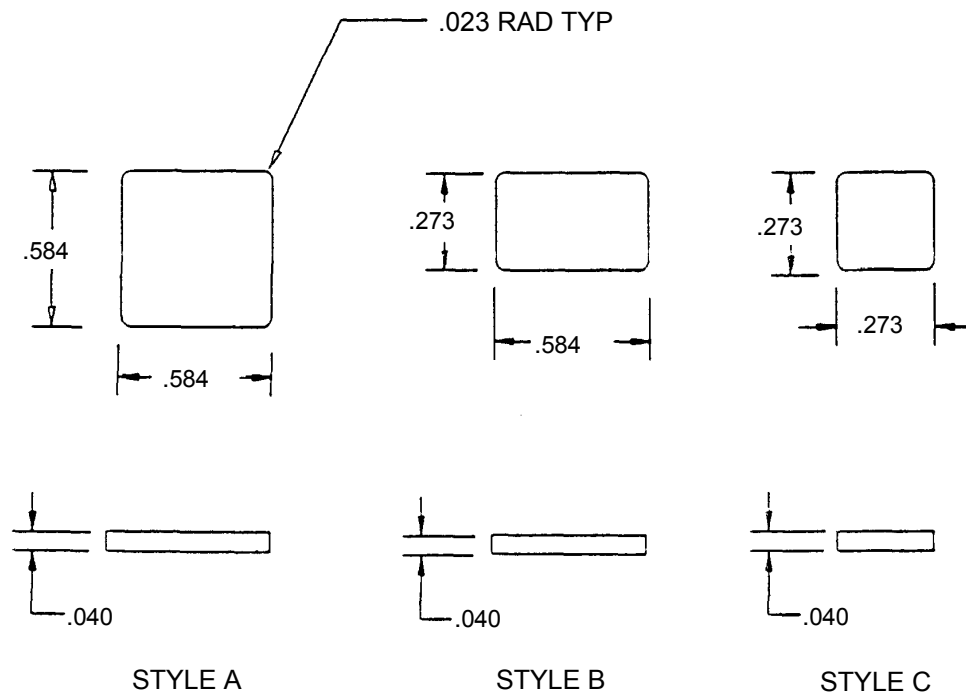


# PERFORMANCE SPECIFICATION SHEET

## SWITCH, PUSHBUTTON, ILLUMINATED, COLOR FILTER FOR, PLANAR DESIGN

This specification sheet is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the color filter described herein shall consist of this specification sheet and MIL-PRF-22885.



Inches	mm
.023	0.58
.040	1.02
.273	6.93
.584	14.83

### NOTES:

1. Dimensions are in inches. Metric equivalents are given for general information only.
2. Unless otherwise specified, tolerance is  $\pm .005$  (.13 mm).

FIGURE 1. Design and construction.

## REQUIREMENTS:

Design and construction: See figure 1. Color filters shall be capable of mating with pushbuttons in accordance with MIL-PRF-22885/52.

Temperature characteristic: 1 (-55°C to +85°C).

Color and luminance: See table I.

Part or Identifying Number (PIN): See table II.

Qualification inspection: As a part of illuminated push button switch assembly, MIL-PRF-22885/56 or MIL-PRF-22885/86.

TABLE I. Chromaticity limits and photometric brightness.

Color	Color code	Chromaticity limits <u>1/</u> 2360° Kelvin		Switch photometric brightness (foot-lamberts) <u>2/</u> minimum
		x	y	
Blue	B	.210	.280	35
		.330	.280	
		.330	.420	
		.210	.420	
Green	G	.230	.610	150
		.350	.540	
		.380	.580	
		.280	.660	
Red	R	.695	.285	150
		.703	SL <u>3/</u>	
		.655	.325	
		.660	SL <u>3/</u>	
White	W	.490	.390	150
		.490	.420	
		.535	.410	
		.535	.435	
Yellow	Y	.565	.410	150
		.580	SL <u>3/</u>	
		.540	.435	
		.550	SL <u>3/</u>	

1/ The chromaticity of the assembled illuminated display, expressed as x and y coordinates on the CIE chromaticity diagram, shall lie within areas bounded by the coordinates listed for each color, using a source illuminate of 2360°K.

2/ Switch photometric brightness, when viewed from the front of the applicable pushbutton display and using midjet flange, T-1 ¾ incandescent lamps operated at a .34 ±.02 MSCP.

3/ SL = Spectrum locus(where intersected by other coordinate pair).

MIL-PRF-22885/54E

TABLE II. Pin's and characteristics.

PIN			Color	Color code
Style A	Style B	Style C		
M22885/54-001	M22885/54-007	M22885/54-013	Blue	B
M22885/54-002	M22885/54-008	M22885/54-014	Green	G
M22885/54-003	M22885/54-009	M22885/54-015	Red	R
M22885/54-004	M22885/54-010	M22885/54-016	White	W
M22885/54-005	M22885/54-011	M22885/54-017	Yellow	Y
M22885/54-006	M22885/54-012	M22885/54-018	Amber <u>1/</u>	A

1/ Amber color filters, M22885/54-006, -012, and -018 are inactive for new design.

Reference Documents:

MIL-PRF-22885  
MIL-PRF-22885/52  
MIL-PRF-22885/56  
MIL-PRF-22885/86

Custodians:

Army - CR  
Navy - EC  
Air Force - 11  
DLA - CC

Preparing activity:  
DLA - CC

(Project 5930-1807)

Review activities:

Army - AR, CR4, MI  
Navy - AS, MC, OS, SH  
Air Force - 19, 99

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at [www.dodssp.daps.mil](http://www.dodssp.daps.mil).